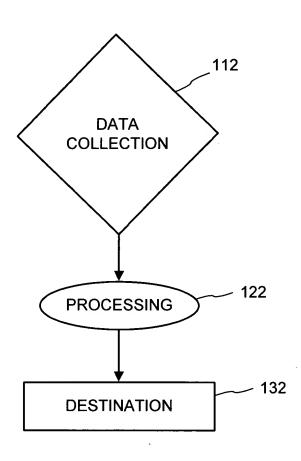
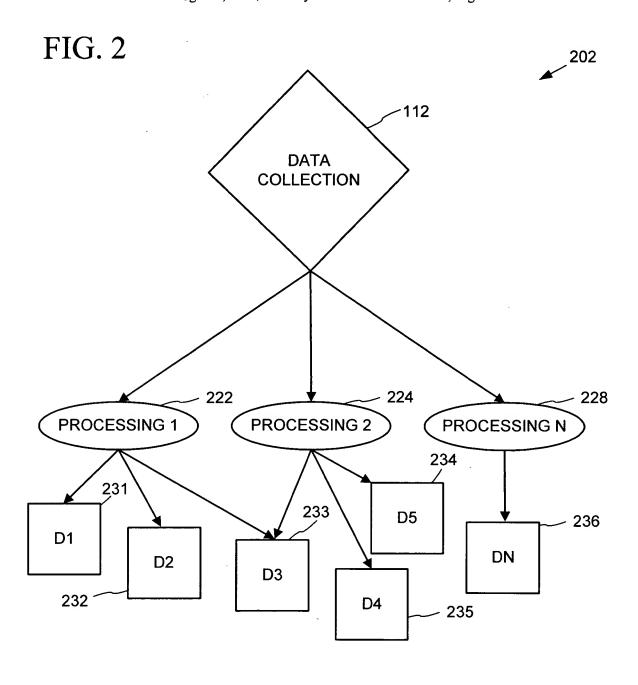
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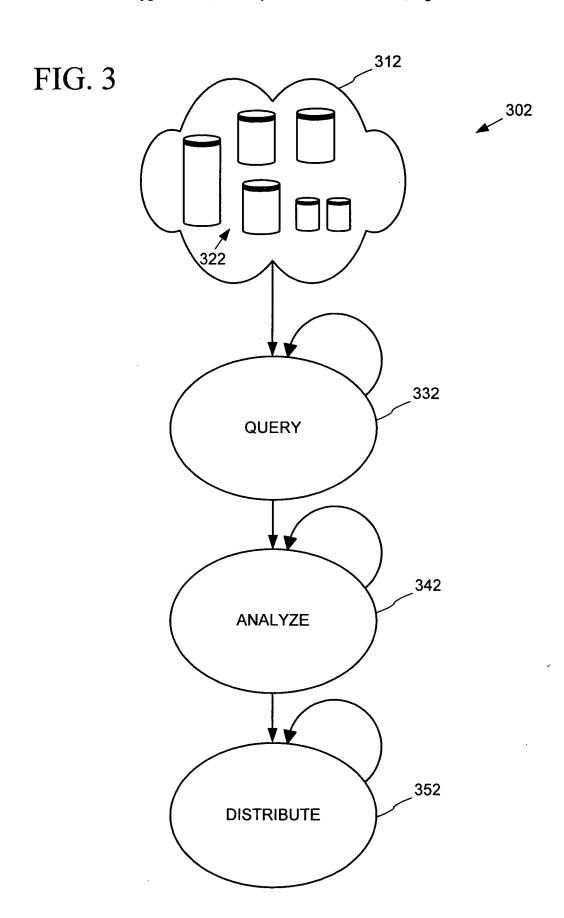




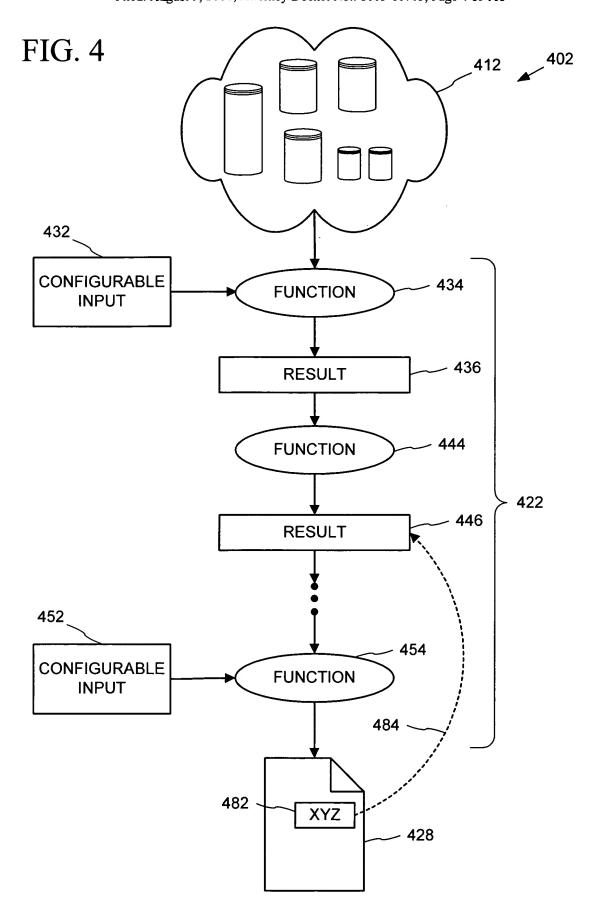


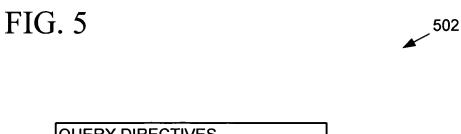


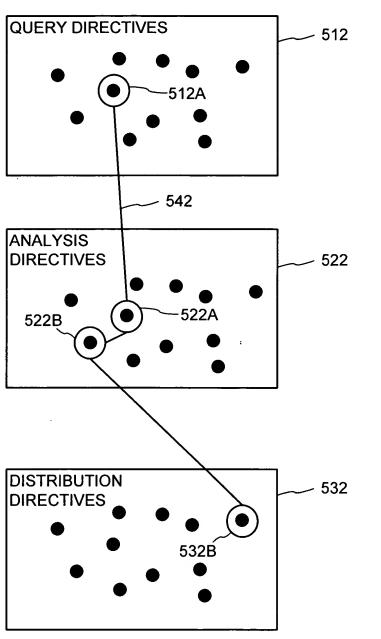


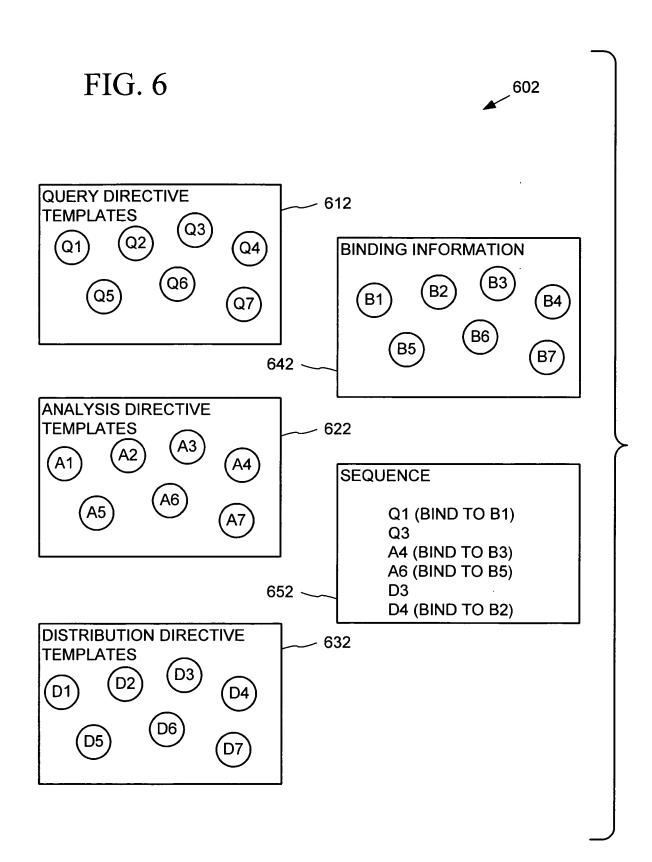


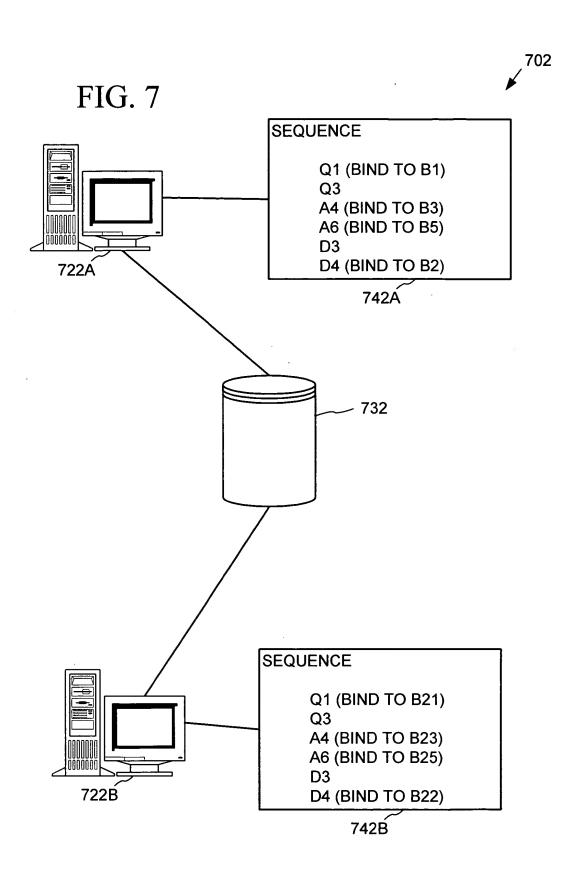
Application No. 09/925,103,



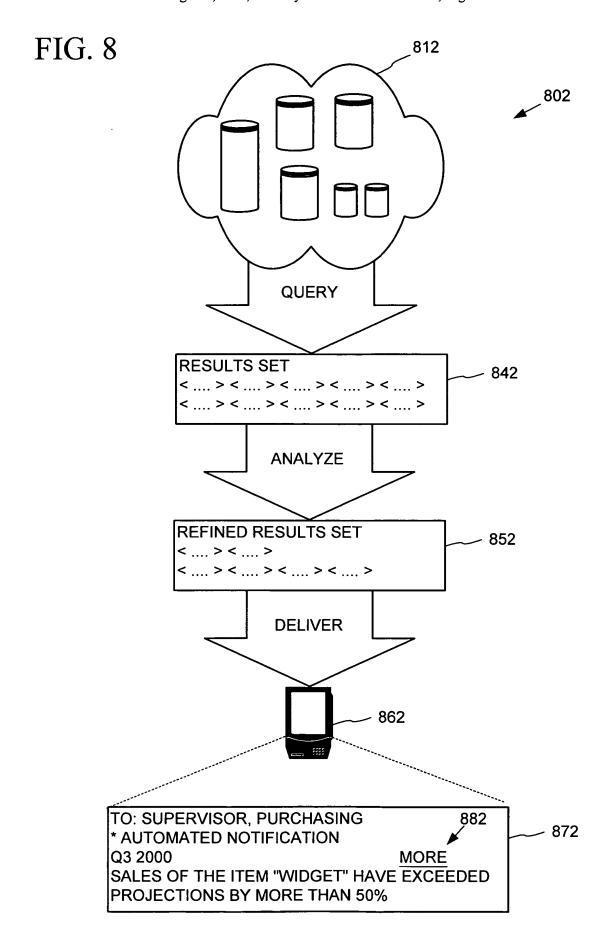






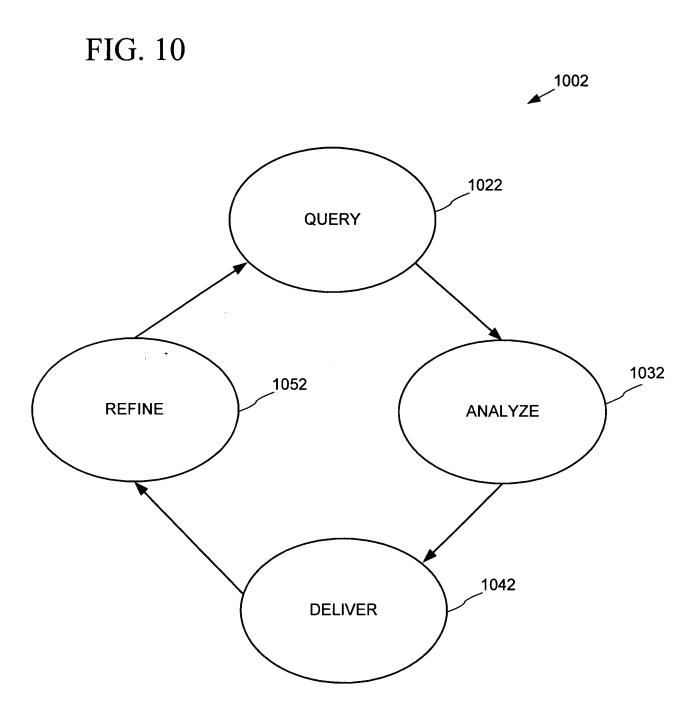


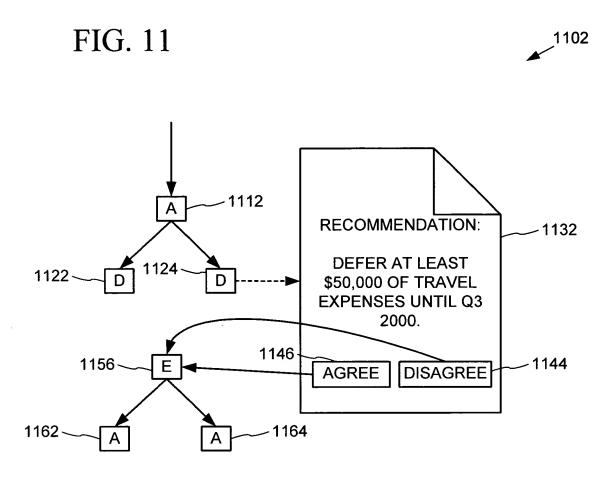




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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESSINFORMATION FROM A DATA COLLECT Application No. 09/925,103, Filed: Sust 9, 2001, Attorney Docket No.: 6115-60713, See 12 of 103

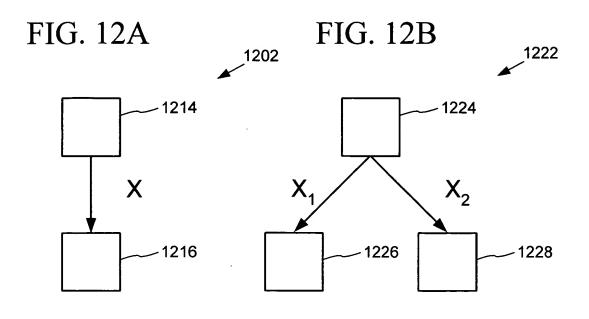
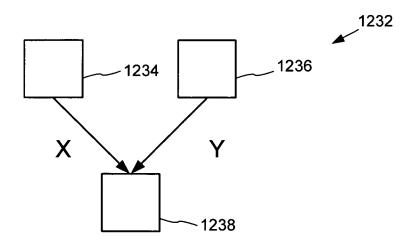
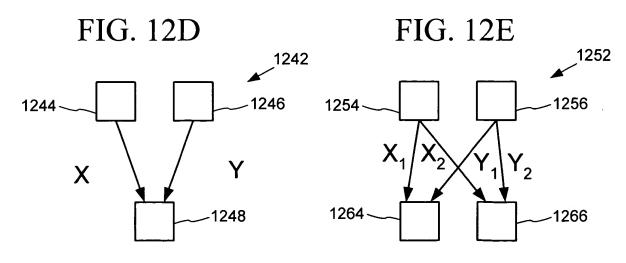


FIG. 12C





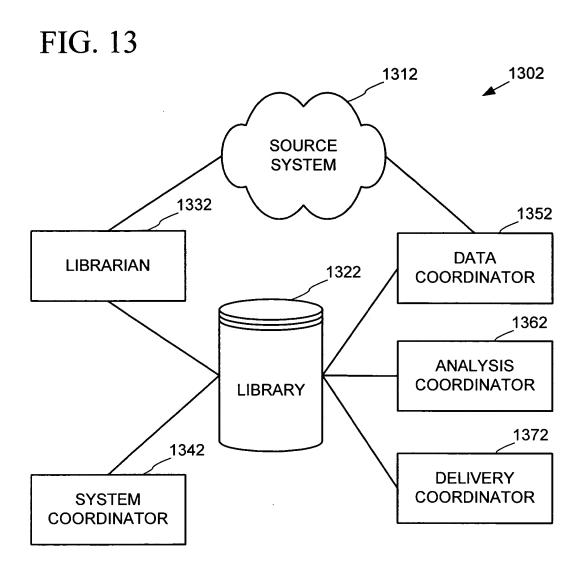
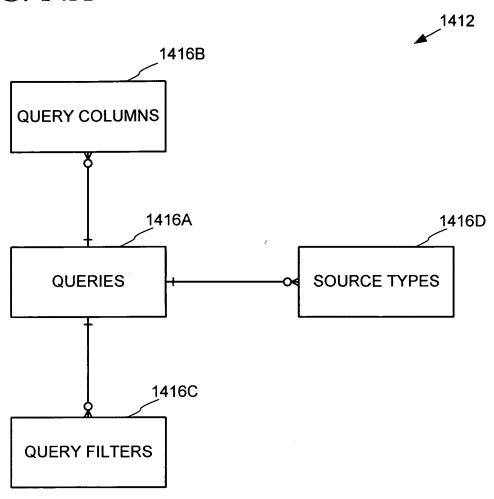
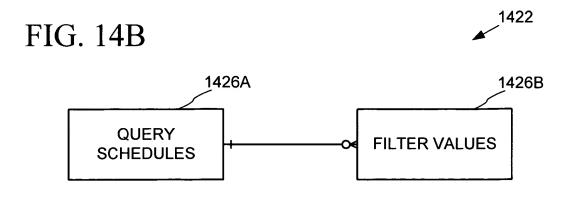


FIG. 14A





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FIG. 14C

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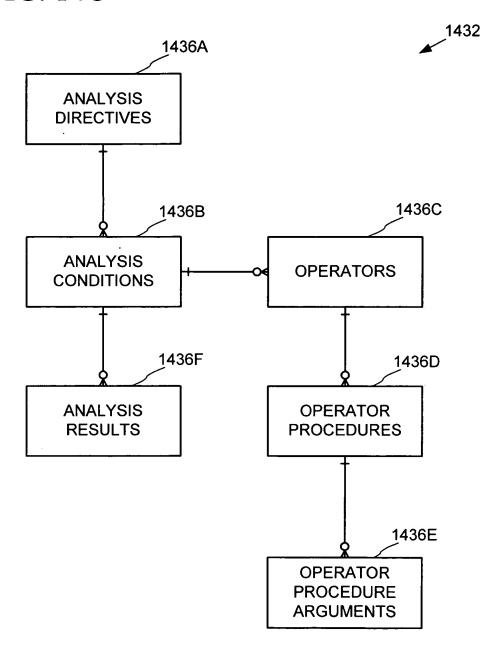


FIG. 14D

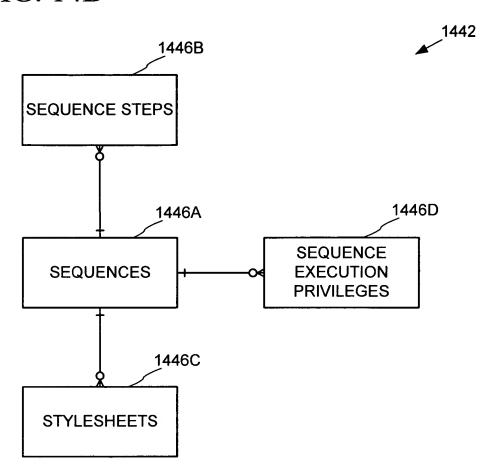


FIG. 14E

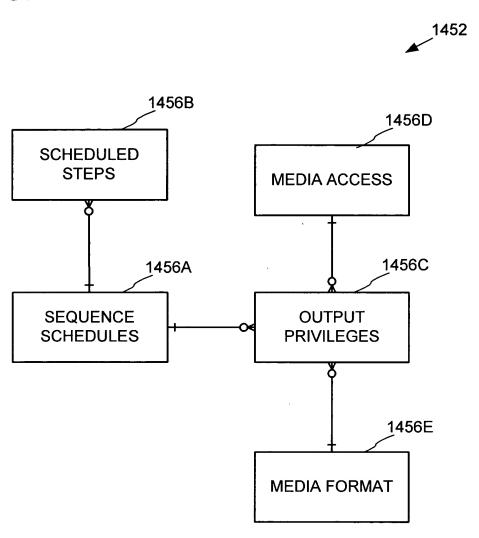
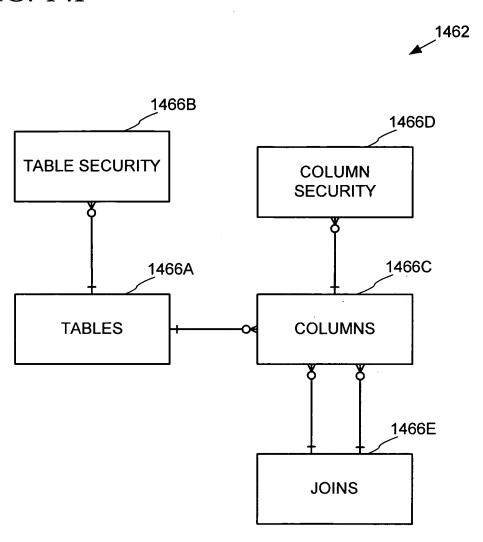
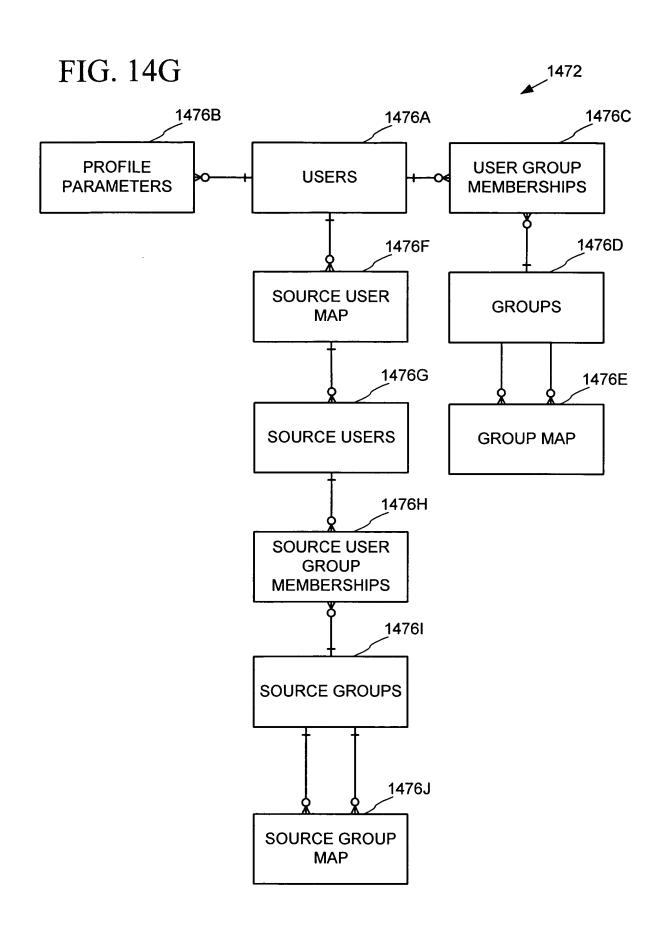


FIG. 14F





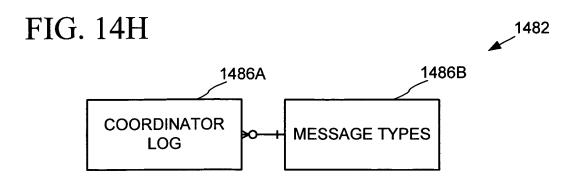


FIG. 15A

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REV	PTD REVENUE	SYSTEM B	ST	AVAILABLE	•	МОР
FIN	FINANCIALS	SYSTEM B	ST	AVAILABLE	•	MOD
SALES	SALES BY DEPT SYSTEM B	SYSTEM B	ST	AVAILABLE		MOD

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 109/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 109/925, 103, SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, APPLICATION FROM A DATA COLLECTION FROM A

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AR_SHIP_VIA_D								-
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ASSET_EMPLOYEE_D								
ASSET_TYPE D								
AUTHORIZER_D	•							
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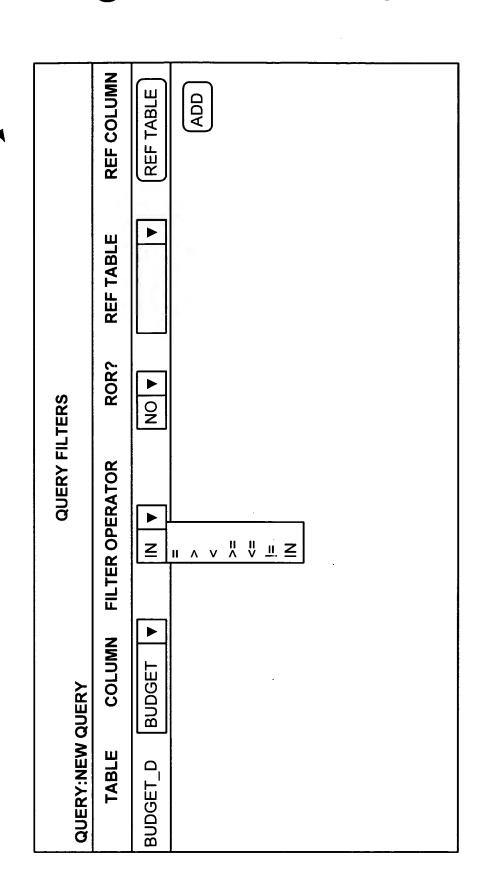
Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 24 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 26 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: Systems And Methods For Defining Execut

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems Andrew Executable (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Systems AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inven

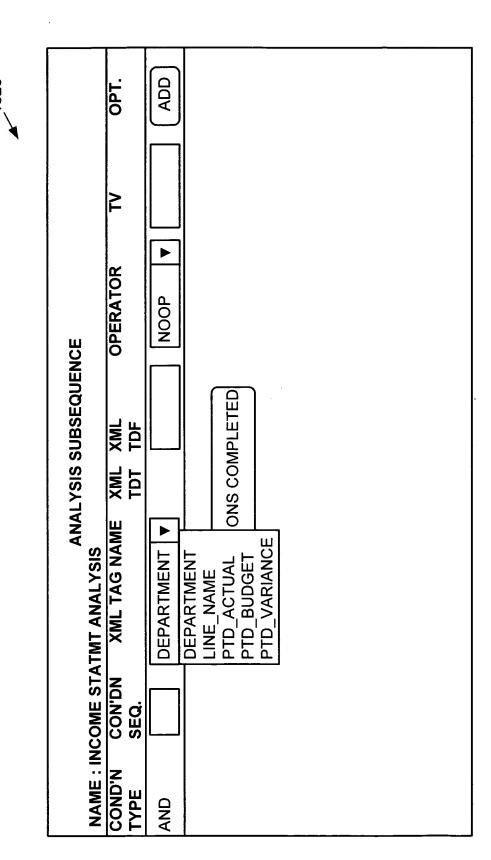
FIG. 15I

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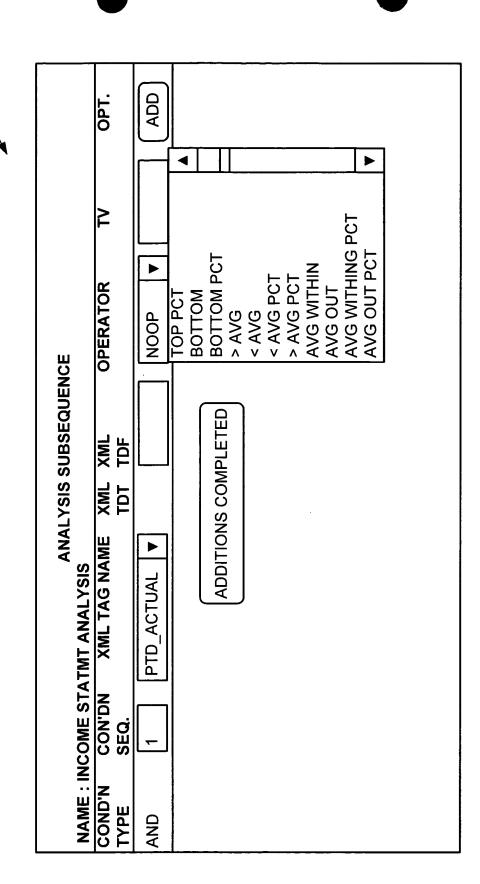
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 31 of 103

FIG. 15L

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO(503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE STATEMENT OF THE PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE STATEMENT OF THE PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE STATEMENT OF THE PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, (503) 226-7391, (503) 22

FIG. 15M

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25	25 FSV	FSV	AVAIL	•	NB	MOD
26	COST CENTER SCORING 1	COST CENTER SCORING	DISAB ▼	•	rs	LS MOD
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, SEGUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, APPLICATION FROM A DATA COLLECTION, APPLICATION FROM A DATA COLLECTION FROM A DATA COLLECTI

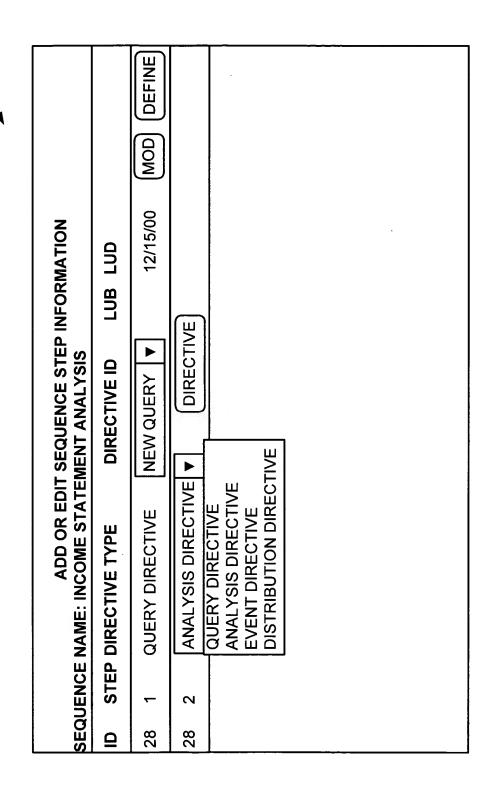
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SOME STORM PROPERTY OF THE SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SOME STORM PROPERTY OF THE STOR

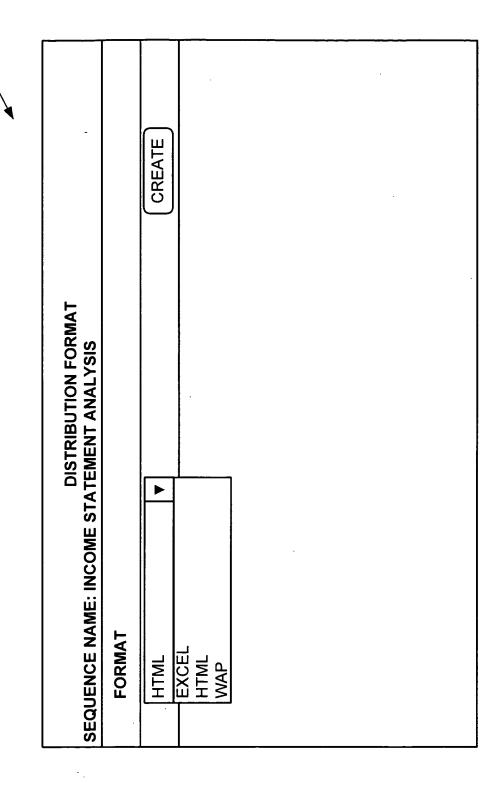


Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 35 of 103 SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204,

SEQUE	SEQUENCE NAME: IN	ADD OR EDIT SEQUENCE STE	EDIT SEQUATEMENT	ADD OR EDIT SEQUENCE STEP INFORMATION COME STATEMENT ANALYSIS	INFOR	MATION		
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Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 36 of 103 SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE

FIG. 15Q



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 37 of 103

FIG. 15R

HOME	SCHEDULE SEQUENCES
SEQUENCES AVAILABLE	SEQUENCE NAME USER SCHEDULE DESC FREQ PRIORITY
ADMIN	INCOME STAT'T ANALYSIS ▼ LS ISA FOR DEC '00 IMMEDIATE ▼ ADD
SYS SETTINGS USERS	SELECT SEQUENCE TO VIEW
LOGS APPL SETTINGS	COST CENTER SCORING - PTD VARIANCE ▼
MEDIA SETT'S	

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 38 of 103

SEQUENCE NAME USER SCHEDULE DESC INCOME STAT'T ANALYSIS SELECT SEQUENCE TO VIEW COST CENTER SCORING - PTD VARIANCE [COST CENTER SCORING - PTD VARIANCE ▼	"00 IMMEDIATE ONCE EXTRACT DAILY WEEKLY	ADD
▼ LS [ISA FOR DEC '00] PTD VARIANCE ▼		ADD
PTD VARIANCE	IMMEDIATE ONCE EXTRACT DAILY WEEKLY	
•	EXTRACT DAILY WEEKLY	
	WEEKLY	
	MONTHLY	

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ADD SEQUENCE TO SCHEDULE SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN
□SUNDAY □ MONDAY □ TUESDAY □ WED □ THURS □ FRIDAY □ SATURDAY
START AT
8 ▼ : 30 ▼ PM ▼
VEXT START DATE
2000 ▼ DEC ▼ 15 ▼
SUBMIT

Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 40 of 103 SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE

SCHEDULE ENTRY SELECT SOURCE INFORMATION SEQUENCE: INCOME STATEMENT ANALYSIS
NCE: INCOME
TED: 1
QUERY: NEW QUERY
SOURCE NAME DV ▼
DV
CONTINUE

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FIG. 15V

SELECT SOURCE INFO	SCHEDULE ENTRY VFORMATION
SEQUENCE: INCOM	SEQUENCE: INCOME STATEMENT ANALYSIS
STEP: 1	
QUERY: NEW QUERY	λλ
SOURCE NAME	PART
SOURCE SET	OAS 🔻
	CONTINUE

FILTER VALUES FOR QUERY SEQUENCE: INCOME STATEMENT ANALYSIS SCHEDULE: INCOME STATEMENT ANALYSIS SEQUENCE STEP: 1 NEW QUERY	FILTER V. STATEMENT ANA STATEMENT ANA	ALUES LYSIS LYSIS F	FILTER VALUES FOR QUERY IENT ANALYSIS ENT ANALYSIS FOR DECEMBER 2000	
TABLE NAME	COL NAME	0P	FILTER VALUE	
BUDGET_D	BUDGET	Z	ACTUAL	MOD
			CORPORATE 1997	▼ MOD DEL
				▲ ADD
PERIOD_D	PERIOD		DEC-2000	MOD
IF YOU HAVE M/	ADE CHANGES ANI OR DEL BUTTONS, FINI	S AND NOT S ONS, THEY V FINISHED	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED [FINISHED]	THE ADD,

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE STATEMENT OF THE STATEME

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 1716-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 1716-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 1716-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 109/925, 103, pp. 1716-7391, pp. 1716-7391

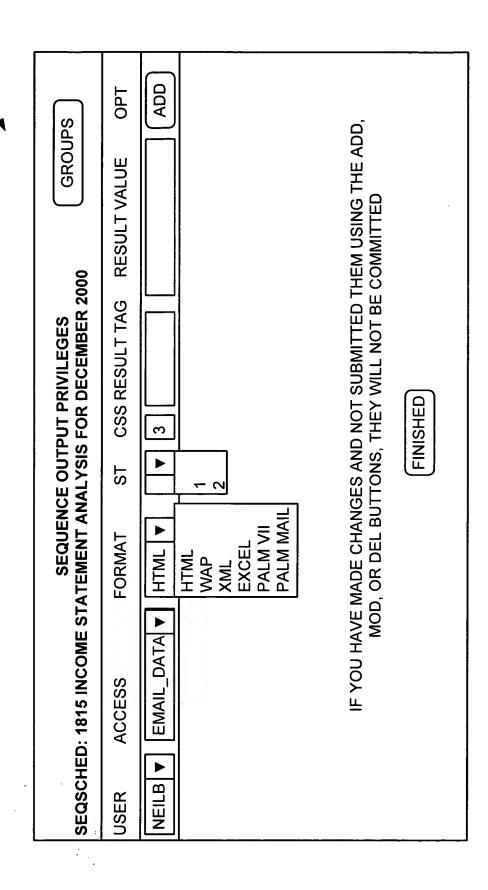
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, September 2018, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, September 2018, September

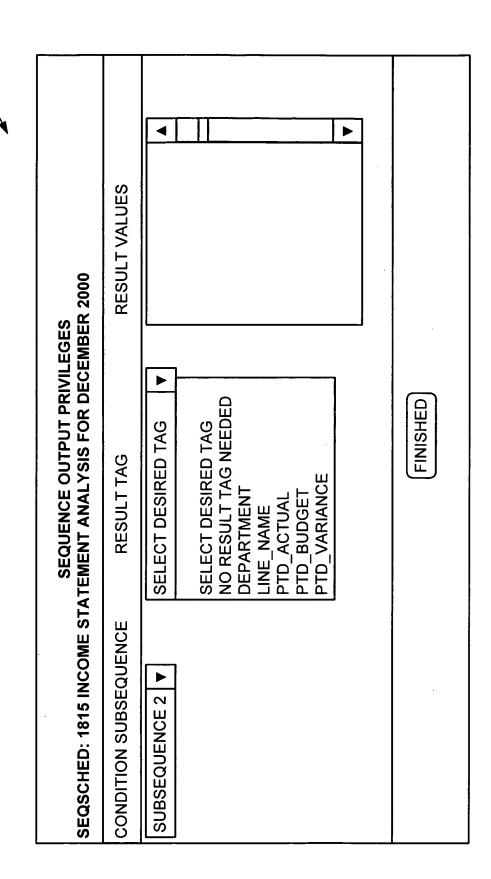
FIG. 15Z

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FIG. 15AA



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 ∞

155			■
FIG. 15BB	SEQSCHED: 1815 INCOME STATEMENT ANALYSIS FOR DECEMBER 2000	SELECT	<pre><val></val></pre>

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. 00	RESULT VALUES	<pre><?XML VERSION = "1.0"?> <split values=""> <val>COMMERCIAL SALES</val> <val? communications="" resources<="" val=""> <val>EAST REGION SALES</val> <val>FINANCES</val> <val>FINANCES</val> <val>PRODUCT SALES</val> <val>PRODUCT SALES</val> </val?></split> </pre>	
SEQUENCE OUTPUT PRIVILEGES E STATEMENT ANALYSIS FOR DECEMBER 2000	RESULT TAG RES	DEPARTMENT <pre> <palit values=""></palit></pre>	FINISHED
SEQSCHED: 1815 INCOME STA	CONDITION SUBSEQUENCE	SUBSEQUENCE 2 ▼	

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SEQSCHED	SEQSCHED: 1815 INCOME ST	SEQUENCE OUTPUT PRIVILEGES E STATEMENT ANALYSIS FOR DECEMBER 2000	E OUTF ALYSIS	OUT P	SEQUENCE OUTPUT PRIVILEGES MENT ANALYSIS FOR DECEMBER	₹ 2000	GROUPS	JPS
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			FIN	FINISHED	\bigcirc			

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925, 103, Sequences TO PROCESS INFORMATION FROM A DATA COLLECTION, APPLICATION FROM A DATA COLLECTION FROM A DATA COLLECTIO

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S	SELECT SEQUENCE TO VIEW	
	TEST SEQUENCE FOR PRIVS AND STEPS ▼	VIEW
	TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS	

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SCHEDULE SEQUENCES
SEQUENCE NAME USER SCHEDULE DESC FREQ PRIORITY
TEST SEQUENCE FOR PRIV ▼ LS
SELECT SEQUENCE TO VIEW
TEST SEQUENCE FOR PRIVS AND STEPS ▼
SEQUENCE: INCOME STATEMENT ANALYSIS USER: NB
ID DESCRIPTION STATUS FREQ START OPTIONS
1815 INCOME STAT'T ANALYSIS DEC 2001 SCHED DAILY ▼ 23-APR-2001 MOD 08:30 PM DEL DEL

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE 503, Inventors: SCHEURICH 503, Inventors: SCHEUR

SMTP EMAIL DIR. **TEXT EMAILER** (125)1602 1608 1626 (116) PUBLISH PAGE (87) PALETTE AND CANVAS FOR SEQUENCE (100) {PART QUANTITY SHORTAGES} **BAVE RESULTS** ADV. FILTER 1622 RESULTS (42) RESULTS SAVE (108)SAVE (65)(72)1624 QUERY QUERY QUERY (26)(52)(33)QUERY (152)PUBLISHE RESULTS STORED CLEAR **PAGES** CLEAR (21) SCHEDULER (11) **CLEAR PUBLISHED PAGES CLEAR STORED RESULTS** 1610 SMTP EMAIL DIRECTIVE **CUSTOM DIRECTIVES** ADVANCED FILTER QUERY DIRECTIVE **EMAIL RESULTS** SAVE RESULTS **PUBLISH PAGE TEXT EMAILER** DISTRIBUTION **TOPX FILTER** FIG. 16A SCHEDULER **DIRECTIVES** APPENDER **ANALYSIS** MISC QUERY 1604

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 53 of 103

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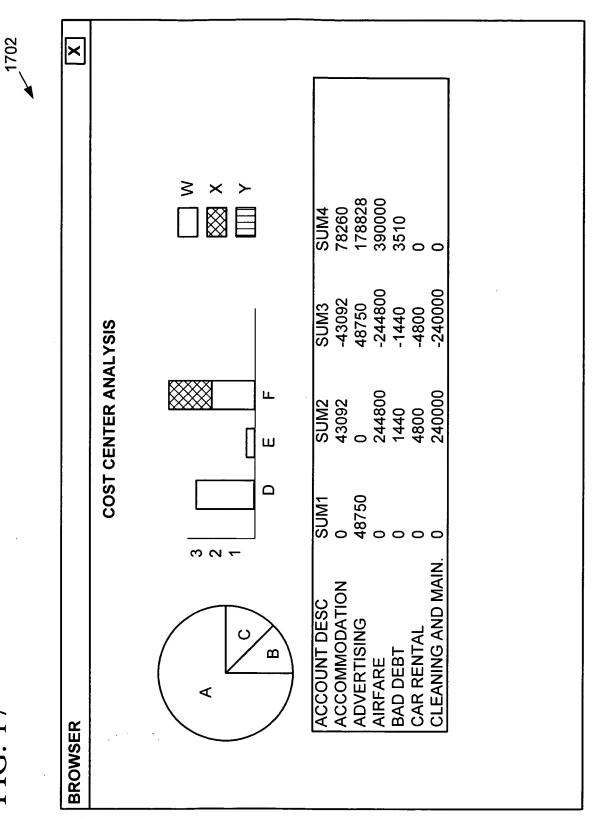
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SEQUENCE AUTHOR	HOR: AUTHOR1 TUS: STATUS1	ADD VARIABLE
GLOBAL VARIABLES:	SLES:	
CAPTION: VALUE:	CONNECT STRING JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30	NAME: CONNECT STRING 521:CONNECT30
CAPTION: VALUE:	DATABASE USER NAME RRIC1234	NAME: USER_NAME
CAPTION: VALUE:	DATABASE PASSWORD SEQUENCE	NAME: USER_PWD
CAPTION: VALUE:	OWNERNAME QRY_ANALYSIS	NAME: OWNERNAME
CAPTION: VALUE:	CURRENT PERIOD (1997-09) SEP-97	NAME: CURPERIOD

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3,

1660 ID: 108 DIRECTIVE NAME: (ADFILTER) ADVANCED FILTER CANCE PARAM NAME (FILTER_EXP) FILTER EXPRESSION INPUT INPUT #REQUIRED_QUANTITY# >200 DB3(52) RESULT DATA INPUT 엉 **DIRECTIVE PROPERTIES** ACTIVITY

FIG



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 56 of 103

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS COR DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTI Specification No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 57 of 103

FIG. 18

__1801

<DF DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA</p> DIRECTIVE" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070"/> <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL" PARAM DATA TYPE="STRING" PARAM NAME="SQL"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION</p> STRING" PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER</p> NAME" PARAM DATA TYPE="STRING" PARAM NAME="USERNAME"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD"/> </IN PARAMETERS> **<OUT PARAMETERS>** <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE"/>
 </OUT_PARAMETERS>
 </DF_DIRECTIVE_DEFINITION>

FIG. 19A

_1901

- <DF DIRECTIVE DEFINITION LIST>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SB1"
 DIRECTIVE_NAME="SCHEDULER" DIRECTIVE_CATEGORY="DPA-MISC"
 THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SCHEDULE DIRECTIVE"
 DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1">
- <!-- CAN ADD A TYPE OR ICON NAME

-->

- <IN PARAMETERS>
- <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FREQUENCY"
 PARAM DATA TYPE="STRING" PARAM NAME="FREQUENCY" />
 - </IN PARAMETERS>
 - <OUT PARAMETERS />
- <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
 PORT="9070" />
 - </DF DIRECTIVE DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB2" DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="SPLIT" DIRECTIVE_DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
- <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
 PORT="9070" />
- <IN PARAMETERS>
 - <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL"
- PARAM DATA TYPE="STRING" PARAM NAME="SQL" />
- <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN TO SPLIT"
- PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN" />
- <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"</pre>
- PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" />
- <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
- PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" />
- <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD"
 PARAM_DATA_TYPE="STRING" PARAM_NAME="PWD" />
 - </IN PARAMETERS>

FIG. 19B

1902

- <OUT_PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE" />
 </OUT_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB1" DIRECTIVE_NAME="TOPX FILTER" THREADING_EFFECT="STANDARD" DIRECTIVE_DESC="FILTER OUT TOP X ROWS FROM RESULTSET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN POSITION FOR TOPX" PARAM_DATA_TYPE="STRING" PARAM_NAME="TOPX_COLUMN" />
 </IN_PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <IN PARAMETERS>

PORT="9070" />

FIG. 19C

_1903

- <OUT_PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESS LIST"
PARAM DATA TYPE="STRING" PARAM NAME="MAILADR" />

*DADAMETED DADAM TYPE-WAW DADAM CARTION WOLD IEC

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT LINE"</pre>

PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />

<PARAMETER PARAM_TYPE="IN" PARAM CAPTION="MESSAGE DATA"</pre>

PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRB1"

DIRECTIVE NAME="CLEAR STORED RESULTS"

THREADING_EFFECT="STANDARD" DIRECTIVE TYPE=""

DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"

DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNER ID"</p>

PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTNAME"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

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FIG. 19D

1904

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRC1" DIRECTIVE NAME="CLEAR PUBLISHED PAGES" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"</p> PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNERID"</p>

PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" />

</IN PARAMETERS>

The Call to the tree and the that the

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="SR1" DIRECTIVE NAME="SAVE RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"

DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET OWNER" PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET"</p>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET METADATA"

PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET NAME"</p>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />

</IN PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTSET ID"

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSETID" />

</OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>

FIG. 19E

and and the first that

1

1905

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CR2" DIRECTIVE NAME="PUBLISH PAGE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR SECDOC"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM_TYPE="IN" PARAM CAPTION="PAGE NAME"</pre> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE SLICE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE DEFINITION"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGEDEFN" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P1" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM_DATA_TYPE="STRING" PARAM NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P5" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P6" /> </IN PARAMETERS>

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FIG. 19F

1906

- <OUT_PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE ID"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGEID" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE OWNER"
PARAM_DATA_TYPE="STRING" PARAM_NAME="OWNER" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGENAME" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="PAGE SLICE NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="PAGESLICENAME" />
 </OUT_PARAMETERS>

- </DF DIRECTIVE DEFINITION>
- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="DB3" DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4" PORT="9070" />
- <IN_PARAMETERS>
 - <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SQL"

PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM_NAME="SQL" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"
PARAM_DATA_TYPE="STRING" PARAM_NAME="CONNECTION_STRING" />
<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE USER NAME"
PARAM_DATA_TYPE="STRING" PARAM_NAME="USERNAME" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD" />

- <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P1"

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P1"</pre>

PARAM_DATA_TYPE="STRING" PARAM_NAME="P1" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P2"
PARAM DATA TYPE="STRING" PARAM NAME="P2" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P3"

PARAM_DATA_TYPE="STRING" PARAM_NAME="P3" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="P4"

PARAM DATA TYPE="STRING" PARAM NAME="P4" />

<PARAMETER PARAM_TYPE="IN" PARAM CAPTION="P5"

PARAM_DATA_TYPE="STRING" PARAM_NAME="P5" />
</IN PARAMETERS>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCE IFORMATION FROM A DATA COLLECTI Explication No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 64 of 103

FIG. 19G

</IN PARAMETERS>

1907

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="MB2" DIRECTIVE NAME="SMTP EMAIL DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SEND PUBLISHED PAGES" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR</p> ADDRDOC" PARAM DATA TYPE="STRING" PARAM NAME="ADDRMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRCOLNAME" /> <PARAMETER PARAM_TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"</pre> PARAM DATA TYPE="STRING" PARAM NAME="IDCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT" /> <par><PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE INSTANCE"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGEINST" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MAIL FORMAT"</p> PARAM DATA TYPE="STRING" PARAM NAME="FORMAT" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM MAIL

ADDRESS" PARAM DATA TYPE="STRING" PARAM NAME="SENDFROM" />

FIG. 19H

1908

R DEFINING EXECUTABLE application No. 09/925,103,

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES"</p> PARAM DATA TYPE="STRING" PARAM NAME="ERROR MSG" /> </OUT_PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="ABFILTER" DIRECTIVE NAME="ADVANCED FILTER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="FILTER RESULTS" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="FILTER EXPRESSION"</p> PARAM DATA TYPE="STRING" PARAM NAME="FILTER EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ROW COUNT" PARAM DATA TYPE="STRING" PARAM NAME="ROWCOUNT" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="TEXTEMAILER" DIRECTIVE NAME="TEXT EMAILER" THREADING EFFECT="STANDARD"

<DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p>

DIRECTIVE_TYPE="" DIRECTIVE_DESC="TEXT EMAILER" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"

DIRECTIVE CATEGORY="DPA-MISC">

PORT="9070" />

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FIG. 19I

</DF DIRECTIVE DEFINITION>

</DF DIRECTIVE DEFINITION LIST>

1909

- <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT EXPRESSION"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE EXPRESSION" PARAM_DATA_TYPE="STRING" PARAM NAME="MESSAGE EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="EMAIL ADDRESSES" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM ADDRESS" PARAM DATA TYPE="STRING" PARAM NAME="FROM ADDRESS" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES" PARAM DATA TYPE="STRING" PARAM NAME="ERROR" /> </OUT PARAMETERS>

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FIG. 20A

```
- <RESULTS DOC>
- <DP QUERY DEF VERSION="1">
 <DPA IDENTIFIERS DATA_SET="NW" WH_OWNER_NAME="RROC" />
 <HINTS />
- <COLUMN DEFS>
 <COLUMN DEF COLUMN_SORT_ATTRIBUTE="NONE"
COLUMN TEXT="VENDOR NAME" TABLE ALIAS="VENDOR D"
COLUMN NAME="VENDOR NAME" COLUMN ALIAS="VENDOR NAME"
COLUMN SORT ORDER="1" COLUMN POSITION="1"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"</p>
COLUMN TEXT="PERIOD KEY" TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="PERIOD KEY" COLUMN ALIAS="PERIOD KEY"
COLUMN SORT ORDER="2" COLUMN POSITION="2"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="DESC"
COLUMN TEXT="SUM(AP_INV_DETAIL F.INVOICE_LINE AMOUNT)"
TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="INVOICE LINE AMOUNT"
COLUMN ALIAS="SUM INVOICE LINE AMOUNT"
COLUMN_SORT_ORDER="3" COLUMN_POSITION="3"
COLUMN TYPE="AGGREGATE" />
 </COLUMN DEFS>
- <TABLE DEFS>
 <TABLE DEF TABLE ALIAS="AP INV DETAIL F"
TABLE NAME="AP INV DETAIL F" />
 <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D" /
 </TABLE DEFS>
- <DETAIL FILTERS>
- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"
TABLE ALIAS="VENDOR D" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
 <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE/
FILTER VALUE>
 </FILTER>
```

FIG. 20B

2002

- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY" TABLE ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE> </FILTER> </DETAIL FILTERS> - <AGGREGATE FILTERS> - <FILTER FILTER TYPE="VALUE"</p> COLUMN TEXT="SUM(INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR=">"> <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE> </FILTER> </AGGREGATE_FILTERS> </DP QUERY DEF> <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER"</p> MACHINE="EXH 2K" PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM" WAREHOUSE_DBNAME="DEMO30" WAREHOUSE OWNER="RROC">FOODADDY</ DPA QUERY SERVER INFO> - <DP DS METADATA> <DP COLUMN COLUMN NAME="VENDOR NAME"</p> COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C1" COLUMN TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="VENDOR NAME" COLUMN LABEL="VENDOR NAME" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="PERIOD KEY"</p> COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C2" COLUMN_TYPE="GROUP_BY" COLUMN_SORT_ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="PERIOD KEY" COLUMN LABEL="PERIOD KEY" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="SUM INVOICE LINE AMOUNT"</p> COLUMN DATA TYPE="NUMBER" COLUMN DS ALIAS="C3" COLUMN TYPE="AGGREGATE" COLUMN SORT ATTRIBUTE="DESC" COLUMN SOURCE ALIAS="SUM INVOICE LINE AMOUNT" COLUMN LABEL="INVOICE LINE AMOUNT" COLUMN DESC="" COLUMN IS CURRENCY="Y" />

FIG. 20C

</DP DS METADATA> - <DP DS> - <R> <C1>JAMIE FROST</C1> <C2>DEC-97</C2> <C3>28159</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JAN-98</C2> <C3>15114.76</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>FEB-98</C2> <C3>4417.86</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>APR-98</C2> <C3>3439.10</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>DEC-97</C2> <C3>3263</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>NOV-97</C2> <C3>2907.85</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>FEB-98</C2> <C3>2799.31</C3>

</R>

2004

FIG. 20D

- <R> <C1>KERRY JONES</C1> <C2>MAY-98</C2> <C3>2698.64</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>APR-98</C2> <C3>2657.20</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAY-98</C2> <C3>2549.68</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>MAR-98</C2> <C3>2511.98</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAR-98</C2> <C3>2459.87</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JUN-98</C2> <C3>2219.90</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>JUN-98</C2> <C3>2182.29</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>JAN-98</C2>

<C3>1516</C3>

</R>

- <R>

<C1>BLACK, CHRIS</C1>

<C2>NOV-97</C2>

<C3>651.06</C3>

</R>

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</DP_DS>

</RESULTS_DOC>

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FIG. 21A

2101

- <DF WORKFLOW VERSION="1">
- <DF_WORKFLOW_HEADER DF_EDITOR_MAX_ID="172" FLOW_NAME="QTY
 ANALYSIS" FLOW_DESCRIPTION="QTY ANALYSIS FLOW" FLOW_STATUS="FLOW
 STATUS" FLOW NOTES="" FLOW AUTHOR="FLOW AUTHOR" />
- <DF WORKFLOW PARAMETERS>
- <PARAMETER NODE_ID="13" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CONNECT STRING" PARAM_NAME="CONNECT_STRING"
 PARAM_TYPE="OUT">

<PARAM SOURCE

PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</P>

- </PARAMETER>
- <PARAMETER NODE_ID="14" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USER_NAME"
 PARAM_TYPE="OUT">
- <PARAM_SOURCE PARAM_TYPE="VALUE">RROC609</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="15" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="USER_PWD"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">DPA</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="16" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="OWNERNAME" PARAM_NAME="OWNERNAME" PARAM_TYPE="OUT">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">QTY_ANALYSIS</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="17" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CURRENT PERIOD" PARAM_NAME="CURRPERIOD"
 PARAM_TYPE="OUT">
- <PARAM_SOURCE PARAM_TYPE="VALUE">(1997-09) SEP-97</PARAM_SOURCE>
 - </PARAMETER>
- </DF WORKFLOW PARAMETERS>
- <DF WORKFLOW ACTIVITIES>
- <ACTIVITY NODE ID="11">
- <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity implementation directive vendor="dpa"

DIRECTIVE NAME="SCHEDULER" THREADING EFFECT="SPLIT"

DIRECTIVE_ID="SB1" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SCHEDULE DIRECTIVE" />

FIG. 21B

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="12" PARAM_DATA TYPE="STRING" PARAM CAPTION="FREQUENCY" PARAM NAME="FREQUENCY" PARAM TYPE="IN">
 - <PARAM SOURCE PARAM TYPE="VALUE">0</PARAM SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
 - <ACTIVITY OUT PARAMETERS />
 - </ACTIVITY>
- <ACTIVITY NODE ID="18">
 - <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

DIRECTIVE NAME="CLEAR STORED RESULTS"

THREADING EFFECT="STANDARD" DIRECTIVE ID="CRB1" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="19" PARAM DATA TYPE="STRING"
- PARAM CAPTION="OWNER ID" PARAM NAME="OWNERID" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE ID="20" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="RESULTNAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN">
 - <PARAM SOURCE PARAM TYPE="VALUE">*
 - </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS />
- </ACTIVITY>
- <ACTIVITY NODE ID="21">
 - <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

DIRECTIVE NAME="CLEAR PUBLISHED PAGES"

THREADING EFFECT="STANDARD" DIRECTIVE ID="CRC1" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="22" PARAM DATA TYPE="STRING"

PARAM CAPTION="OWNERID" PARAM NAME="OWNERID" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>

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FIG. 21C

2103 - <PARAMETER NODE ID="23" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">* </PARAMETER> </ACTIVITY IN PARAMETERS> <ACTIVITY OUT PARAMETERS /> </ACTIVITY> - <ACTIVITY NODE ID="26"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="DETAIL QUERY" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="27" PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC COMPONENT_ITEM_DESC,SUM(NW DISC SHORTAGE F.QUANTITY ISSUED) QUANTITY ISSUED, SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND) QUANTITY ON HAND, SUM(NW DISC SHORTAGE F.QUANTITY SHORT) QUANTITY SHORT, SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) REQUIRED QUANTITY FROM NW COMPONENT ITEM D 0 NW COMPONENT ITEM D,NW DISC SHORTAGE F 0 NW DISC SHORTAGE F,NW ORG PERIOD D 0 NW ORG PERIOD D,NW WIP ENTITY D 0 NW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT_ITEM_KEY = NW COMPONENT ITEM D.COMPONENT ITEM KEY AND NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY AND NW DISC SHORTAGE F.WIP ENTITY KEY =NW WIP ENTITY D.WIP ENTITY KEY AND NW ORG PERIOD D.ORG PERIOD = '#P1#' GROUP BY NW COMPONENT ITEM D.COMPONENT ITEM DESC HAVING SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) > 0 ORDER BY

REQUIRED QUANTITY DESC, COMPONENT ITEM DESC, REQUIRED_QUANTITY, QUANTITY ISSUED, QUANTITY SHORT, QUANTITY ON HAND</ PARAM SOURCE> </PARAMETER>

FIG. 21D

- <PARAMETER NODE_ID="28" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CONNECTION STRING"
 PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="29" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="30" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="31" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="32" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="33" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="34" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="35" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 </ACTIVITY IN PARAMETERS>

FIG. 21E

2105

- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="36" PARAM_DATA_TYPE="STRING"

PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"

PARAM TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

- <PARAMETER NODE ID="37" PARAM DATA TYPE="STRING"

PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"

PARAM_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

</ACTIVITY_OUT_PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE ID="39">

<ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="TREND QUERY" />

<ACTIVITY IMPLEMENTATION DIRECTIVE_VENDOR="DPA"</p>

DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD" DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE"

DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="40" PARAM_DATA_TYPE="PARAMITERIZED SQL

STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">SELECT

NW ORG PERIOD D.ORG PERIOD

PERIOD NAME, SUM(NW_DISC_SHORTAGE F.QUANTITY ISSUED)

QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY ON HAND)

QUANTITY ON HAND, SUM(NW DISC SHORTAGE F.QUANTITY SHORT)

QUANTITY SHORT, SUM(NW DISC SHORTAGE F. REQUIRED QUANTITY)

REQUIRED QUANTITY FROM NW DISC SHORTAGE F 0

NW_DISC_SHORTAGE_F, NW_ORG_PERIOD_D_0 NW_ORG_PERIOD_D WHERE

NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =

NW ORG PERIOD D.ORG PERIOD KEY GROUP BY

NW_ORG_PERIOD_D.ORG_PERIOD_ORDER BY PERIOD_NAME DESC</

PARAM SOURCE>

</PARAMETER>

- <PARAMETER NODE ID="41" PARAM DATA TYPE="STRING"

PARAM CAPTION="CONNECTION STRING"

PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

</PARAMETER>

FIG. 21F

- <PARAMETER NODE_ID="42" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="43" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="44" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="45" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="46" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="47" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="48" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="49" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="50" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
 PARAM_TYPE="OUT">
- <PARAM SOURCE />
- </PARAMETER>
- </ACTIVITY_OUT_PARAMETERS>
- </ACTIVITY>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Survice et al., Title: SYSTEMS AND METHODS DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTION Polication No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 78 of 103

FIG. 21G

ACTIVITY NODE ID-1153115

- <ACTIVITY NODE_ID="52">

<activity_header activity_notes="activity notes"

ACTIVITY DESCRIPTION="SUMMARY QUERY" />

<activity_implementation directive_vendor="dpa"

DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD"
DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE

DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="53" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN">

<PARAM SOURCE PARAM TYPE="VALUE">SELECT

NW COMPONENT ITEM D.COMPONENT ITEM DESC

COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)

QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)

QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)

QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE F.REQUIRED QUANTITY)

REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0

NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0

NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0

NW ORG PERIOD D, NW WIP_ENTITY D 0 NW WIP ENTITY D WHERE

NW DISC SHORTAGE F.COMPONENT ITEM KEY =

NW COMPONENT ITEM D.COMPONENT ITEM KEY AND

NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =

NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND

NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY

=NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW_ORG_PERIOD_D.ORG_PERIOD = '#P1#' GROUP BY NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC HAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC,REQUIRED_QUANTITY,

QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</P>

</PARAMETER>

- <PARAMETER>
- <PARAMETER NODE ID="54" PARAM DATA TYPE="STRING"

PARAM CAPTION="CONNECTION STRING"

PARAM NAME="CONNECTION_STRING" PARAM TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

</PARAMETER>

- <PARAMETER NODE_ID="55" PARAM_DATA_TYPE="STRING"</p>

PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>

</PARAMETER>

FIG. 21H

- <PARAMETER NODE_ID="56" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="57" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="58" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="59" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="60" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="61" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="62" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="63" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

FIG. 21I

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- <ACTIVITY NODE ID="65">

<ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"
ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"</pre>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="66" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="67" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">36</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="68" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET METADATA"
 PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">37</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="69" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">DETAIL
- ·</PARAMETER>
- </ACTIVITY_IN_PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="70" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
 PARAM_TYPE="OUT">
- <PARAM SOURCE />
- </PARAMETER>
- </ACTIVITY OUT_PARAMETERS>
- </ACTIVITY>
- <ACTIVITY NODE ID="72">
- <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"</pre>

ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity_implementation directive_vendor="dpa"

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"

DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />

FIG. 21J

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- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="73" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="74" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">49</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="75" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET METADATA"
 PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">50</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="76" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">TREND</PARAM_SOURCE> </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="77" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY OUT PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="79">
 - <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity_implementation directive_vendor="dpa"

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="80" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>

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FIG. 21K

- <PARAMETER NODE_ID="81" PARAM_DATA TYPE="STRING" PARAM CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="82" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="83" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SUMMARY</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="84" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="RESULTSET ID" PARAM NAME="RESULTSETID" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="87"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING EFFECT="STANDARD" DIRECTIVE NAME="PUBLISH PAGE" DIRECTIVE ID="CR2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1"

DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="88" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="GRANT SECURITY LIST" PARAM NAME="SECDOC" PARAM TYPE="IN">
 - <PARAM SOURCE PARAM TYPE="ID">162</PARAM SOURCE> </PARAMETER>
- <PARAMETER NODE ID="89" PARAM DATA TYPE="STRING" PARAM CAPTION="METADATA FOR SECDOC" PARAM NAME="SECMETA" PARAM TYPE="IN">
 - <PARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE> </PARAMETER>

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FIG. 21L

- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECCOLNAME" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME
- <PARAMETER NODE_ID="91" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="92" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">STARTPAGE</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="93" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">FIRST</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="94" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE DEFINITION" PARAM_NAME="PAGEDEFN"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE"><DP_PAGE_DEF><LAYER LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3" LAYER HEIGHT="100%" LAYER WIDTH="100%"><LAYER

LAYER TYPE="VERTICAL" LAYER PADDING="3" LAYER BORDER="0"

LAYER_HEIGHT="225" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET"

LAYER_HEIGHT="100%" LAYER_WIDTH="50%"><WIDGET

WIDGET ID="DP PIE CHART"><PARAMETERS><PARAM

PARAM_NAME="TITLE">MY PIE</PARAM><PARAM PARAM NAME="DSID">#P3#</

PARAM><PARAM PARAM NAME="VALUECOL">REQUIRED QUANTITY</

PARAM><PARAM PARAM_NAME="LABELCOL">COMPONENT_ITEM_DESC</

PARAM><PARAM PARAM NAME="FILTERTYPE">TOP</PARAM><PARAM

PARAM NAME="FILTERVAL">10</PARAM></PARAMETERS></WIDGET></

LAYER><LAYER LAYER TYPE="WIDGET" LAYER HEIGHT="100%"

LAYER WIDTH="50%"><WIDGET

WIDGET_ID="DP_BAR_CHART2"><PARAMETERS><PARAM

PARAM NAME="TITLE">MY CHART TITLE</PARAM><PARAM

PARAM NAME="DSID">#P2#</PARAM><PARAM

PARAM_NAME="MEASURECOLS">QUANTITY_ON_HAND|QUANTITY_ISSUED|QUA

NTITY SHORT|REQUIRED QUANTITY</PARAM><PARAM

PARAM NAME="XAXISLABELS">ON HANDIISSUEDISHORTIREQUIRED</

PARAM><PARAM PARAM NAME="SERIESCOL">PERIOD NAME</PARAM></

PARAMETERS></WIDGET></LAYER></LAYER

LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3"

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FIG. 21M

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LAYER_HEIGHT="80%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><WIDGET WIDGET WIDGET_ID="DP_REPORT_VIEWER"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY TITLE</PARAM> <PARAM PARAM_NAME="DSID">#P1#</PARAM></PARAMETERS></WIDGET></LAYER></LAYER></LAYER></LAYER></PARAM_SOURCE> </PARAMETER>

- <PARAMETER NODE_ID="95" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="96" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">77</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="97" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">84</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="98" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="99" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="100" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P6" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- </ACTIVITY_IN_PARAMETERS>
 <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE ID="101" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="PAGE ID" PARAM_NAME="PAGEID" PARAM_TYPE="OUT"> <PARAM_SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="102" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="OUT"> <PARAM_SOURCE /> </PARAMETER>

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FIG. 21N 2114 - <PARAMETER NODE ID="103" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="104" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE SLICE NAME" PARAM NAME="PAGESLICENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="108"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY DESCRIPTION="OUTOF BOUNDS QTY" /> <activity implementation directive vendor="dpa" THREADING EFFECT="STANDARD" DIRECTIVE NAME="ADVANCED FILTER" DIRECTIVE ID="ABFILTER" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="FILTER RESULTS" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="109" PARAM DATA TYPE="STRING" PARAM CAPTION="FILTER EXPRESSION" PARAM NAME="FILTER EXP" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">#REQUIRED QUANTITY# > 200 PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="110" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="111" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="IN" <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="112" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER>

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FIG. 210

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- <PARAMETER NODE_ID="113" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

- <PARAMETER NODE_ID="114" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ROW COUNT" PARAM_NAME="ROWCOUNT" PARAM_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

</ACTIVITY_OUT_PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE ID="116">

<activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="TEXT EMAILER" DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE DESC="TEXT EMAILER" />

- <ACTIVITY_IN_PARAMETERS>

- <PARAMETER NODE_ID="117" PARAM_DATA_TYPE="STRING"</p>

PARAM_CAPTION="SUBJECT EXPRESSION" PARAM_NAME="SUBJECT_EXP" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION

</PARAMETER>

- <PARAMETER NODE_ID="118" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="MESSAGE EXPRESSION" PARAM_NAME="MESSAGE_EXP"
PARAM_TYPE="IN">

<PARAM SOURCE PARAM TYPE="VALUE">COMPONENT:

#COMPONENT_ITEM_DESC# REQUIRES #REQUIRED_QUANTITY# ADDITIONAL UNITS</PARAM SOURCE>

</PARAMETER>

- <PARAMETER NODE_ID="119" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="EMAIL_ADDRESSES"
PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">EXH@DPAPPLICATIONS.COM

</PARAMETER>

- <PARAMETER NODE ID="120" PARAM_DATA_TYPE="STRING"

PARAM_CAPTION="SEND FROM ADDRESS" PARAM_NAME="FROM_ADDRESS" PARAM TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM

</PARAMETER>

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FIG. 21P

- <PARAMETER NODE_ID="121" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">112</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE ID="122" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">113</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="123" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY OUT PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="125">
 - <activity header activity notes="activity notes"
- ACTIVITY DESCRIPTION="EMAIL LINK" />
- <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>
- THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE" DIRECTIVE_ID="MB2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"
- DIRECTIVE DESC="SEND PUBLISHED PAGES" />
- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="126" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="ADDRDOC" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="127" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="METADATA FOR ADDRDOC" PARAM_NAME="ADDRMETA" PARAM TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE>
- </PARAMETER>
- <PARAMETER NODE_ID="128" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="ADDRCOLNAME" PARAM TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">EMAIL_ADDRESS</PARAM_SOURCE>
 </PARAMETER>

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FIG. 21Q

- <PARAMETER NODE_ID="129" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="IDCOLNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE ID="130" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="SUBJECT" PARAM_NAME="SUBJECT" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="VALUE">QTY ANALYSIS UPDATED</P>
 PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="131" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">102</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="132" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">103</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE INSTANCE" PARAM_NAME="PAGEINST"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">104</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="134" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="MAIL FORMAT" PARAM_NAME="FORMAT" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="135" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="SEND FROM MAIL ADDRESS" PARAM_NAME="SENDFROM"
 PARAM TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="136" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR_MSG"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Schwirch et al., Title: SYSTEMS AND METHODS 128, DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTION pplication No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 89 of 103

FIG. 21R

_2118

- <ACTIVITY NODE ID="152">
- <ACTIVITY HEADER ACTIVITY_NOTES="ACTIVITY NOTES"</pre>
- ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
 - <activity implementation directive vendor="dpa"

THREADING_EFFECT="\$TANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY IN PARAMETERS>
- - </PARAMETER>
- <PARAMETER NODE_ID="154" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN"> <PARAM_SOURCE
- PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:N RB816</PARAM SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="155" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="156" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="157" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="158" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="159" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> </PARAMETER>

2119

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FIG. 21S

- <PARAMETER NODE_ID="160" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>

- <PARAMETER NODE_ID="161" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>

</ACTIVITY IN PARAMETERS>

- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="162" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET" PARAM_TYPE="OUT">
- <PARAM SOURCE />
- </PARAMETER>
- <PARAMETER NODE_ID="163" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>
 - </DF WORKFLOW ACTIVITIES>
- <DF WORKFLOW TRANSITIONS>

<TRANSITION NODE ID="24" FROM ACTIVITY ID="11" TO ACTIVITY ID="18" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="25" FROM ACTIVITY ID="11" TO ACTIVITY ID="21"</p> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="71" FROM ACTIVITY ID="26" TO ACTIVITY ID="65" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="78" FROM ACTIVITY ID="39" TO ACTIVITY ID="72"</p> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="85" FROM ACTIVITY ID="52" TO ACTIVITY ID="79" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="105" FROM ACTIVITY ID="65" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="106" FROM ACTIVITY_ID="72" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="107" FROM ACTIVITY ID="79" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="115" FROM_ACTIVITY_ID="52" TO ACTIVITY ID="108"</pre> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="124" FROM ACTIVITY ID="108" TO ACTIVITY ID="116" TRANSITION EXPRESSION="#114# > "0"" DESCRIPTION="EMAIL ONLY EXCEPTIONS" NOTES="NOTES" />

FIG. 21T

</DF WORKFLOW>

2120

<TRANSITION NODE ID="137" FROM ACTIVITY ID="87" TO ACTIVITY ID="125" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="164" FROM ACTIVITY ID="18" TO ACTIVITY ID="152" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="165" FROM ACTIVITY ID="21" TO ACTIVITY ID="152" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="166" FROM ACTIVITY ID="152" TO ACTIVITY ID="26" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="167" FROM_ACTIVITY_ID="152" TO ACTIVITY ID="39" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="168" FROM ACTIVITY_ID="152" TO ACTIVITY ID="52" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> </DF WORKFLOW TRANSITIONS> - <DF WORKFLOW EDITOR> <activity visual editing node id="11" ycoord="140" xcoord="12" /> <ACTIVITY VISUAL EDITING NODE ID="18" YCOORD="330" XCOORD="47" /> <ACTIVITY VISUAL EDITING NODE ID="21" YCOORD="50" XCOORD="60" /> <ACTIVITY_VISUAL_EDITING NODE_ID="26" YCOORD="200" XCOORD="294" /> <activity visual editing node id="39" ycoord="70" xcoord="294" /> <ACTIVITY VISUAL EDITING NODE ID="52" YCOORD="320" XCOORD="304" /> <ACTIVITY VISUAL EDITING NODE ID="65" YCOORD="200" XCOORD="408" /> <ACTIVITY VISUAL EDITING NODE ID="72" YCOORD="70" XCOORD="408" /> <activity visual editing node ID="79" ycoord="320" xcoord="428" /> <activity visual editing node id="87" ycoord="200" xcoord="537" /> <ACTIVITY VISUAL EDITING NODE ID="108" YCOORD="430" XCOORD="359" /> <activity visual editing node id="116" ycoord="420" xcoord="587" /> <ACTIVITY VISUAL EDITING NODE ID="125" YCOORD="320" XCOORD="580" /> <ACTIVITY VISUAL EDITING NODE ID="152" YCOORD="200" XCOORD="160" /> </DF WORKFLOW EDITOR>

FIG. 22A

</COLUMN DEFS>

2201

<DP QUERY DEF VERSION="1"> <DPA IDENTIFIERS DATA SET="OAS" WH OWNER NAME="PART"/> <HINTS/> <COLUMN DEFS> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD BUDGET" COLUMN ALIAS="PTD BUDGET" COLUMN SORT ORDER="3" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="3" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD BUDGET"/> <COLUMN DEF SUMMARY TYPE="NONE" COLUMN NAME="LINE NAME"</p> COLUMN ALIAS="LINE NAME" COLUMN SORT ORDER="1" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="1" TABLE ALIAS="INC STMT LINES D" COLUMN_TAG="LINE NAME"/> <COLUMN DEF SUMMARY TYPE="SUM"</p> COLUMN NAME="PTD VARIANCE PCT" COLUMN ALIAS="PTD VARIANCE PCT" COLUMN SORT ORDER="6" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="6" TABLE ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_VAR_PCT"/> <COLUMN DEF SUMMARY TYPE="NONE"</p> COLUMN NAME="DEPARTMENT DESC" COLUMN ALIAS="DEPT DESC" COLUMN SORT ORDER="2" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="2" TABLE ALIAS="DEPARTMENT D" COLUMN TAG="DEPT DESC"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE"</p> COLUMN ALIAS="PTD VARIANCE" COLUMN SORT ORDER="5" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="5" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD VAR"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD ACTUAL"</p> COLUMN ALIAS="PTD ACTUAL" COLUMN SORT ORDER="4" COLUMN SORT ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="4" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD ACTUAL"/>

FIG. 22B

</DP QUERY DEF>

```
2202
   <TABLE DEFS>
    <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D"/>
    <TABLE DEF TABLE ALIAS="AP INV DETAIL F"
TABLE NAME="AP INV DETAIL F"/>
    <TABLE DEF TABLE ALIAS="INCOME STMT A"
TABLE NAME="INCOME STMT A"/>
    <TABLE DEF TABLE ALIAS="DEPARTMENT D"
TABLE NAME="DEPARTMENT D"/>
    <TABLE DEF TABLE ALIAS="INC STMT LINES D"
TABLE NAME="INC STMT LINES D"/>
   </TABLE DEFS>
   <DETAIL FILTERS>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="PERIOD KEY"</pre>
TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">DEC-97</FILTER VALUE>
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"</pre>
TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND" FILTER_OPERATOR="=">
     <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE/
FILTER VALUE>
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY"</pre>
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER OPERATOR="=">
     <FILTER VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE>
    </FILTER>
    <FILTER FILTER TYPE="VALUE" COLUMN TEXT="DEPARTMENT KEY"</pre>
TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND"
FILTER OPERATOR="=">
     <FILTER VALUE VALUE_DATA_TYPE="STRING">560</FILTER_VALUE>
    </FILTER>
   </DETAIL FILTERS>
   <AGGREGATE FILTERS>
    <FILTER FILTER TYPE="VALUE"
COLUMN TEXT="SUM(INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F"
FILTER PREC OPER="AND" FILTER OPERATOR=">">
     <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE>
    </FILTER>
   </AGGREGATE FILTERS>
```

2301

- <DP SCHEMA DOC VERSION="1"> <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER".</p> MACHINE="EXH 2K" PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM" WAREHOUSE DBNAME="DEMO30" WAREHOUSE OWNER="RROC" SCHEMA="AP INV DETAIL F" DATA SET="NW">FOODADDY</ DPA QUERY SERVER INFO>

- <DP DIMENSIONS>

- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE_D"> <a tribute label="accounting date key"

NAME="ACCOUNTING DATE KEY" />

- <a tribute label="accounting month" name="accounting month" />
- <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a triang
- <attribute label="accounting period key"

NAME="ACCOUNTING PERIOD KEY" />

<ATTRIBUTE LABEL="ACCOUNTING PERIOD QUARTER"</p>

NAME="ACCOUNTING PERIOD QUARTER" />

<ATTRIBUTE LABEL="ACCOUNTING QUARTER"</p>

NAME="ACCOUNTING QUARTER" />

<a tribute label="accounting week ending"

NAME="ACCOUNTING WEEK ENDING" />

- <a tribute label="accounting year" name="accounting year" /> </DIMENSION>
- <DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT D">
 - <attribute label="account" name="account" />
 - <ATTRIBUTE LABEL="LINE NAME" NAME="LINE NAME" />
- <ATTRIBUTE LABEL="LINE SEQUENCE KEY" NAME="LINE SEQUENCE KEY" />
- <a triple><attribute label="report section" name="report section" />
- <ATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT SEQUENCE" />
- <a tribute label="account key" name="account key" />
- <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT DESC" /> </DIMENSION>
- < DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT RLUP D">
- <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
- <a tribute label="account key" name="account key" />
- <a tribute label="account rollup description"

NAME="ROLLUP DESC" />

- <a triple><attribute label="account rollup code" name="rollup code" />
- <a tribute label="account description" name="account desc" />

</DIMENSION>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS OR DEFINING EXECUTABLE SEQUENCES TO PROCI SERVICE NOT A DATA COLLECTION Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 95 of 103

FIG. 23B

</DIMENSION>

```
2302
- <DIMENSION LABEL="AP HOLD CODES" NAME="AP HOLD CODE D">
   <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP HOLD CODE" />
   <a tribute label="AP HOLD CODE DESCRIPTION"
NAME="AP HOLD CODE DESC" />
   <ATTRIBUTE LABEL="AP HOLD CODE KEY" NAME="AP HOLD CODE KEY" />
   </DIMENSION>
  - <DIMENSION LABEL="AP HOLD STATUS" NAME="AP HOLD STATUS D">
   <attribute label="ap hold status" name="ap hold status" />
   <ATTRIBUTE LABEL="AP HOLD STATUS KEY" NAME="AP HOLD STATUS KEY" /</p>
   </DIMENSION>
- < DIMENSION LABEL="AP INVOICES" NAME="AP INVOICE D">
   <a href="AP"><a hr
   <attribute label="ap invoice date" name="ap invoice date" />
   <a tribute label="ap invoice key" name="ap invoice key" />
   </DIMENSION>
- <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP INVOICE TYPE D">
   <a href="AP"><a hr
   <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP INVOICE TYPE KEY" /</p>
   </DIMENSION>
- <DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP PAYMENT TERM D">
   <attribute label="ap payment term" name="ap payment term" />
   <a tribute label="AP Payment Term Description"
NAME="AP PAYMENT TERM DESC" />
   <a tribute label="ap payment term key"
NAME="AP PAYMENT TERM KEY" />
   </DIMENSION>
- <DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER D">
   <attribute label="authorizer" name="authorizer" />
   <a triple><attribute label="authorizer key" name="authorizer key" />
   </DIMENSION>
- <DIMENSION LABEL="BUYERS" NAME="BUYER D">
   <attribute label="buyer" name="buyer" />
   <attribute label="authorization limit"
NAME="BUYER AUTHORIZATION LIMIT" />
   <attribute label="end date active" name="buyer end date active" />
   <attribute label="buyer key" name="buyer key" />
   <attribute label="Start date active"
NAME="BUYER START DATE ACTIVE" />
```

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCLEM FORMATION FROM A DATA COLLECTION Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 96 of 103

```
FIG. 23C
                                                                                                                                                                 2303
- <DIMENSION LABEL="COMPANY" NAME="COMPANY D">
   <ATTRIBUTE LABEL="COMPANY" NAME="COMPANY" />
   <ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY DESC" />
   <a tribute label="company key" name="company key" />
   </DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY D">
   <a tribute label="currency" name="currency" />
   <a href="currency description" name="currency desc" />
   <a tribute label="currency key" name="currency key" />
   </DIMENSION>
 - <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT D">
   <a tribute label="Department" name="Department" />
   <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" /</p>
   </DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT RLUP D">
   <attribute label="department" name="department" />
   <attribute label="department rollup desc" name="rollup desc" />
   <ATTRIBUTE LABEL="DEPARTMENT ROLLUP CODE" NAME="ROLLUP CODE" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" /</p>
>
   <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" />
   </DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE DATE D">
   <a tribute label="due date key" name="due date key" />
   <ATTRIBUTE LABEL="DUE MONTH" NAME="DUE MONTH" />
   <attribute label="due period" name="due period" />
   <a triple <a triple ></a> <a t
   <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a triangle <a triangle <a triangle <a triangle <a><a triangle <a triangle 
   <a tribute label="due quarter" name="due quarter" />
   <a href="ATTRIBUTE LABEL="DUE WEEK ENDING" NAME="DUE_WEEK ENDING" />
   <attribute label="due year" name="due year" />
   </DIMENSION>
- <DIMENSION LABEL="INVOICE DATES" NAME="INVOICE DATE D">
   <a tribute label="Invoice date key" name="invoice date key" />
   <a tribute label="Invoice Month" name="invoice_month" />
   <a tribute label="invoice period" name="invoice period" />
   <a tribute label="invoice period key" name="invoice period key" />
   <attribute label="invoice period quarter"
NAME="INVOICE PERIOD QUARTER" />
   <attribute label="invoice quarter" name="invoice quarter" />
   <a triangleright <a>ATTRIBUTE LABEL="INVOICE WEEK ENDING" NAME="INVOICE WEEK ENDING" /></a>
   <a tribute label="invoice year" name="invoice year" />
   </DIMENSION>
```

```
FIG. 23D
                                                       2304
- <DÎMÊNSÎON LABEL="JE BATCHS" NAME="JE BATCH D">
 <attribute label="actual flag" name="actual flag" />
 <attribute label="Default Period Name"
NAME="DEFAULT PERIOD NAME" />
 <attribute label="Je Batch Key" Name="Je Batch Key" />
<attribute label="name" name="name" />
<attribute label="org id" name="org id" />
 <ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" />
<ATTRIBUTE LABEL="DATE CREATED" NAME="DATE CREATED" />
 </DIMENSION>
- < DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION D">
 <attribute label="organization" name="organization" />
 <a tribute label="organization key" name="organization key" />
<ATTRIBUTE LABEL="ORGANIZATION TYPE" NAME="ORGANIZATION_TYPE" />
</DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA PROJECT D">
 <attribute label="project key" name="pa project key" />
<attribute label="project complete date"
NAME="PROJECT COMPLETE DATE" />
 <ATTRIBUTE LABEL="PROJECT MANAGER" NAME="PROJECT MANAGER" />
 <attribute label="project name" name="project name" />
 <attribute label="project number" name="project number" />
<a tribute label="project officer" name="project officer" />
 <ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT SPONSOR" />
<a triple><attribute label="project start date" />
 <ATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT STATUS" />
 <ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT TITLE" />
 <ATTRIBUTE LABEL="PROJECT TYPE" NAME="PROJECT TYPE" />
 </DIMENSION>
- <DIMENSION LABEL="PA TASKS" NAME="PA_TASK_D">
 <attribute label="parent task key" name="parent task key" />
<ATTRIBUTE LABEL="TASK LOCATION" NAME="TASK LOCATION" />
 <attribute label="task name" name="task name" />
 <attribute label="task manager" name="task manager" />
 <attribute label="top task name" name="top task name" />
<attribute label="top task key" name="top task key" />
 <attribute label="task wbs" name="task_wbs" />
 <attribute label="task start date" name="task start date" />
 <attribute label="task number" name="task number" />
 <attribute label="task description" name="task desc" />
 <attribute label="parent task name" name="parent task name" />
<a tribute label="project key" name="pa project key" />
 <ATTRIBUTE LABEL="TASK COMPLETE DATE" NAME="TASK COMPLETE DATE" /</p>
>
 <attribute label="task key" name="pa_task_key" />
</DIMENSION>
```

FIG. 23E

- <DIMENSION LABEL="PERIODS" NAME="PERIOD_D">

<ATTRIBUTE LABEL="PERIOD" NAME="PERIOD" />

<a tribute label="period end date" name="period end date" />

<attribute label="period key" name="period_key" />

<a tribute label="Period Start Date" Name="Period Start Date" />

2305

<a tribute label="period type" name="period type" />

<attribute label="Quarter" name="Quarter" />

<ATTRIBUTE LABEL="YEAR" NAME="YEAR" />

</DIMENSION>

- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT_D">

<ATTRIBUTE LABEL="PRODUCT" NAME="PRODUCT" />

<attribute label="product description" name="product_desc" />

<attribute label="product key" name="product_key" />

</DIMENSION>

- <DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT_CLASS_D">

<attribute label="Project class category"

NAME="PROJECT CLASS CATEGORY" />

<ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT_CLASS_CODE" /</p>

<ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"
NAME="PROJECT CLASS DESCRIPTION" />

<attribute label="project key" name="project_key" />

</DIMENSION>

- <DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR D">

<attribute label="requestor" name="requestor" />

<attribute label="requestor key" name="requestor_key" />

</DIMENSION>

- <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT D">

<ATTRIBUTE LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT" />

<ATTRIBUTE LABEL="SUB-ACCOUNT KEY" NAME="SUB ACCOUNT KEY" />

ATTRIBUTE LABEL="SUB-ACCOUNT DESCRIPTION"

NAME="SUB ACCOUNT DESC" />

</DIMENSION>

- <DIMENSION LABEL="AP VENDORS" NAME="VENDOR D">

>><a trive="act

<ATTRIBUTE LABEL="ACTIVE FLAG" NAME="ACTIVE FLAG" />

<ATTRIBUTE LABEL="ACTIVE START DATE" NAME="ACTIVE START DATE" />

<a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a triangle <a triangle <a triangle <a><a triangle <a triangle

<a tribute label="vendor site address line2" name="address line2" />

<ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE3" NAME="ADDRESS LINE3" />

<a tribute label="vendor site area code" name="area code" />

<ATTRIBUTE LABEL="VENDOR SITE CITY" NAME="CITY" />

<a tribute label="vendor hold reason" name="hold reason" />

<ATTRIBUTE LABEL="VENDOR SITE PHONE NUMBER" NAME="PHONE_NUMBER" /</p>

>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS TO R DEFINING EXECUTABLE SEQUENCES TO PROCE NFORMATION FROM A DATA COLLECTION (Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 99 of 103

FIG. 23F 2306 <ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" /> <ATTRIBUTE LABEL="VENDOR SITE STATE" NAME="STATE" /> <a tribute label="Vendor tax federal flag" NAME="TAX FEDERAL REPORT FLAG" /> <attribute label="Vendor tax reporting name" NAME="TAX REPORTING NAME" /> <attribute label="Vendor Tax State Flag" NAME="TAX STATE REPORT_FLAG" /> <a hre <ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR 1099 TYPE" /> <a tribute label="Vendor corporate group" NAME="VENDOR CORPORATE GROUP" /> <ATTRIBUTE LABEL="VENDOR INDUSTRY CLASS"</p> NAME="VENDOR INDUSTRY CLASS" /> <ATTRIBUTE LABEL="VENDOR KEY" NAME="VENDOR KEY" /> <attribute label="vendor name" name="vendor name" /> < <a tribute label="Vendor organization type" NAME="VENDOR ORG TYPE" />. <attribute label="Vendor payment priority" NAME="VENDOR PAYMENT PRIORITY" /> <ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR PAY GROUP" /> <ATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR SITE CODE" /> <ATTRIBUTE LABEL="VENDOR SITE KEY" NAME="VENDOR SITE KEY" /> <ATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR TYPE" /> <ATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" /> </DIMENSION> - <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F"> <ATTRIBUTE LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE" /> <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING DATE KEY"</p> /> <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT KEY" /> <ATTRIBUTE LABEL="APPROVAL STATUS" NAME="APPROVAL STATUS" /> <a hr <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP INVOICE TYPE KEY" /> <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP PAYMENT TERM KEY"</p> /> <attribute label="buyer key" name="buyer key" /> <ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY KEY" /> <ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY KEY" /> <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" /> <ATTRIBUTE LABEL="DUE DATE" NAME="DUE DATE" />

<a triangle <a> <a triangle <a> <a triangle <a triangle <a> <a triangle <a triangle <a> <a triangle <a triangle <a> <a triangle <a triangle <a triangle <a> <a triangle <a triangl

<ATTRIBUTE LABEL="TOTAL INVOICE AMOUNT" NAME="INVOICE AMOUNT" />

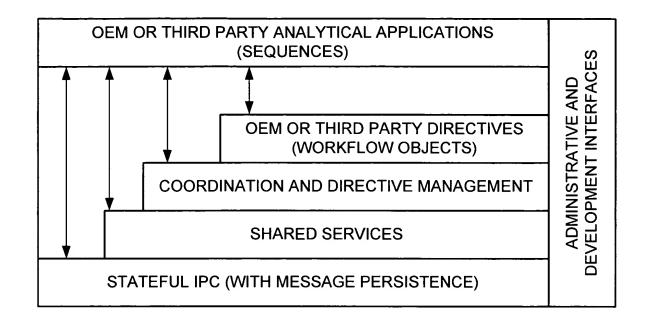
2307

FIG. 23G

```
<attribute label="invoice date" name="invoice date" />
  <attribute label="invoice date key" name="invoice date key" />
  <a tribute label="invoice description" name="invoice desc" />
  <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a><a triple <a><a triple <a><a triple <a><
  <a tribute label="Invoice line description"
NAME="INVOICE_LINE DESC" />
  <a tribute label="invoice line number" name="invoice line number" /
  <attribute label="invoice line type" name="invoice line type" />
  <a tribute label="invoice number" name="invoice number" />
  <ATTRIBUTE LABEL="INVOICE TAX AMOUNT" NAME="INVOICE TAX AMOUNT" />
  <a tribute label="organization key" name="organization key" />
  <attribute label="paid amount" name="paid amount" />
  <attribute label="pa project key" name="pa project key" />
  <attribute label="pa task key" name="pa task key" />
  <attribute label="period key" name="period key" />
  <attribute label="posted flag" name="posted flag" />
  <attribute label="po creation date" name="po created date" />
  <a tribute label="po number" name="po number" />
  <a tribute label="product key" name="product key" />
  <attribute label="recurring invoice flag"
NAME="RECURRING INVOICE FLAG" />
  <a tribute label="Sub-account key" name="Sub-account key" />
  <ATTRIBUTE LABEL="TRANSLATED CURRENCY CODE"</p>
NAME="TRANSLATED CURRENCY CODE" />
  <attribute label="vendor key" name="vendor key" />
  </DIMENSION>
  </DP DIMENSIONS>
- <MEASURES LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F">
  <MEASURE LABEL="ACCOUNTING (PRE-AP) LAG DAYS"</p>
NAME="ACCOUNTING LAG DAYS" />
  <MEASURE LABEL="INVOICE LINE AMOUNT" NAME="INVOICE LINE AMOUNT" />
  <MEASURE LABEL="INVOICE LINE EXCHANGE RATE VARIANCE"</p>
NAME="INVOICE LINE EXCH RATE VAR" />
  <MEASURE LABEL="INVOICE LINE PRICE VARIANCE"</p>
NAME="INVOICE LINE PRICE VARIANCE" />
  <MEASURE LABEL="NUMBER OF INVOICE LINES"</p>
NAME="NUMBER INVOICE LINES" />
  <MEASURE LABEL="TRANSLATED CURRENCY AMOUNT"</p>
NAME="TRANSLATED CURRENCY AMOUNT" />
  <MEASURE LABEL="UNPAID AMOUNT" NAME="UNPAID AMOUNT" />
  </MEASURES>
  </DP SCHEMA DOC>
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FIG. 24





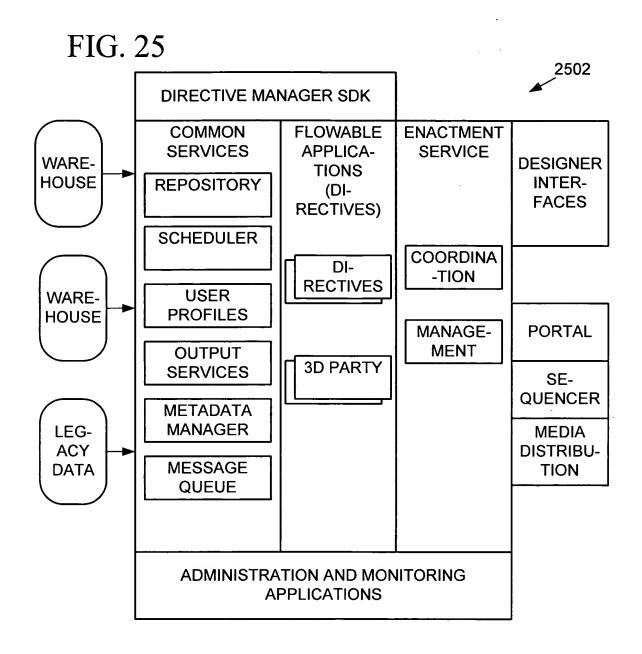


FIG. 26

